

Rat Growth Hormone (GH) CLIA Kit | GH clia kit

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CATALOG # AAA150366	REACTIVITY Rat	APPLICATIONS CLIA (Chemiluminescence Immunoassay)
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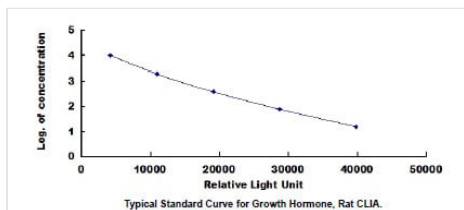
PRODUCT SYNONYMS

Growth Hormone (GH); Rat Growth Hormone (GH) CLIA Kit; GH1; GH-N; GHN; hGH-N; Somatotropin; Hygetropin; Jintropin; Kigtropin; Pituitary Growth Hormone; Growth Hormone; Normal; GH clia kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of growth hormone. No significant cross-reactivity or interference between growth hormone and analogues was observed.
Assay Type	Competitive Inhibition
Samples	Serum, Plasma and other biological fluids
Detection Range	16-10,000pg/mL
Sensitivity	5pg/mL
Applicable Applications for GH clia kit	CLIA (Chemiluminescence Immunoassay)
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level growth hormone were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level growth hormone were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for GH clia kit	Intended Uses: The Chemiluminescent Immunoassay kit is designed for the in vitro sensitive quantitative measurement of growth hormone in rat serum, plasma and other biological fluids. Principle of the Assay: The microplate provided in this kit has been pre-coated with a monoclonal antibody specific to growth hormone. A competitive inhibition reaction is launched between biotin labeled growth hormone and unlabeled growth hormone (Standards or samples) with the pre-coated antibody specific to growth hormone. After incubation the unbound conjugate is washed off. Next, avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. The amount of bound HRP conjugate is reverse proportional to the concentration of growth hormone in the sample. Then the mixture of substrate A and B is added to generate glow light emission kinetics. Upon plate development, the intensity of the emitted light is reverse proportional to the growth hormone level in the sample or standard.
Product Categories/Family for GH clia kit	Endocrinology; Neuro science; Hormone metabolism

NCBI AND UNIPROT INFORMATION

NCBI GI #	291463289
NCBI GeneID	24391
NCBI Accession #	NP_001030020.2
NCBI GenBank Nucleotide #	NM_001034848.2
UniProt Accession #	P01244
Molecular Weight	24,656 Da
NCBI Official Full Name	somatotropin
NCBI Official Synonym Full Names	growth hormone 1
NCBI Official Symbol	Gh1
NCBI Official Synonym Symbols	Gh; RNGHGP
NCBI Protein Information	somatotropin
UniProt Protein Name	Somatotropin
UniProt Gene Name	Gh1
UniProt Synonym Gene Names	Gh
UniProt Entry Name	SOMA_RAT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.